

Industrial Gases

575 MOUNTAIN AVENUE, MURRAY HILL, NEW JERSEY 07974
TELEPHONE: 201-464-8100

June 26, 1975

Mr. Ken Gibson
Lurgan Corporation
Sandy Run, Pennsylvania 18661

Dear Mr. Gibson:

Attached is a sketch showing the oxy-fuel burner and related control equipment. This equipment is to be used for test purposes only; a description of a permanent system will be sent along with our proposal. For the test Airco will supply the oxy-fuel burner, control equipment and the three (3) flexible hoses. The control equipment should be conveniently located and Lurgan Corporation would be responsible for installing the piping from the outside oxygen source to the panel and from the panel to the burner. The cost of all oxygen (test and commercial) will be included in our proposal.

Airco proposes to install the oxy-fuel tip mix burner in the furnace approximately 8 inches below the flue and above the charge. It appears that at this location the burner will fire above the charge into an area where smoke is being generated. By firing directly into this area the burner should consume the smoke before it enters into the flue. The oxy-fuel flame will contain the remainder of the smoke long enough for the heat to eventually consume it before entering the flue.

Several firing rates will be investigated to determine the best results. I expect that the firing rate will be approximately 1.5 mm/hr. firing about 2 - 3 minutes per charge. The oxygen flow rates will be approximately 3300 SCFH.

Airco uses this commercial application at a large aluminum plant on the west coast. This customer charges oily aluminum chips in his furnace. The oil content is 40%. The E.P.A. had stated that the furnaces had to be shut down unless corrective action was immediately taken. Once the Airco burners were installed and fired correctly the E.P.A. gave this customer an immediate release.

If you have any further questions please do not hesitate to call.

Sincerely,

AIRCO INDUSTRIAL GASES

Randy Abernathy
Project Engineer

RA:cc

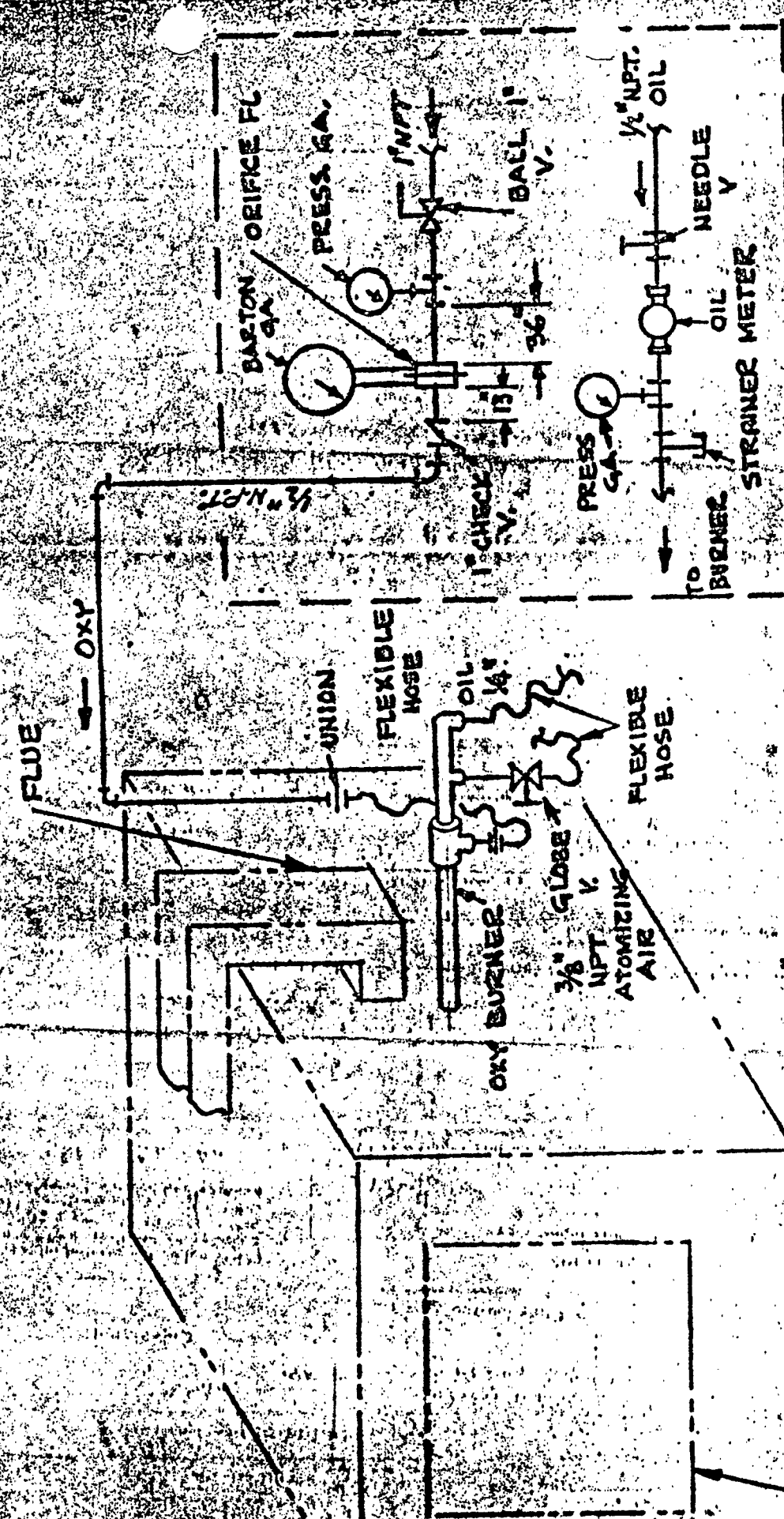
Attach

A DIVISION OF AIRCO, INC.

AR100058

6-26-7

LURGAN CORP.
SANDY RUN, PA.
AIRCO OXY-FUEL BURNER SYSTEM (FOR TEST ONLY)



DRILL 4" DIA HOLE IN FURNACE
CENTERED APPROX 8"
BELOW FLUE FOR AIRCO
BURNER

THIS EQUIPMENT TO BE
MOUNTED ON WALL AND
PIPING TO AND FROM THIS
PANEL TO BE SUPPLIED BY

AR100059